



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re patent  
appln. of : Keith C. Hong, et al.

Serial No: 10/600,809

Filed: June 20, 2003

For: **ALGAE RESISTANT ROOFING  
GRANULES WITH CONTROLLED  
ALGAECIDE LEACHING RATES, ALGAE  
RESISTANT SHINGLES, AND PROCESS  
FOR PRODUCING SAME.**

Group Art  
Unit: 1762

Examiner: Not yet assigned

Docket No: 183-01

**Certificate of Mailing**

I hereby certify that this paper or  
fee and the papers indicated as  
being deposited with the United  
States Postal Service as first  
class mail postage prepaid in an  
envelope addressed to:

Mail Stop DD  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
on January 21, 2004.

  
Alex R. Sluzas, Reg. No. 28,669

Mail Stop DD  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL LETTER**

Sir:

Enclosed and attached hereto are the following documents for filing in the U.S.

Patent and Trademark Office:

1. This transmittal letter in duplicate;
2. Information Disclosure Statement;
3. PTOL Form 1449, 4 pages;
4. Copies of Cited Prior Art; and
5. Acknowledgment postcard to be date-stamped and returned to Paul & Paul.



Serial No. 10/600,809  
Page 2

The Commissioner is hereby authorized to charge any additional fees associated with this communication, or credit any overpayment, to Paul & Paul Deposit Account No. 16-0750, Order No. 2021.

January 21, 2004

Order No. 2021

Respectfully submitted,

Alex R. Sluzas  
Registration No. 28,669

Paul & Paul  
Two Thousand Market Street  
Suite 2900  
Philadelphia, PA 19103  
(215) 568-4900



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent  
appln. of : Keith C. Hong, et al.

Serial No: 10/600,809

Filed: June 20, 2003

For: **ALGAE RESISTANT ROOFING  
GRANULES WITH CONTROLLED  
ALGAECIDE LEACHING RATES, ALGAE  
RESISTANT SHINGLES, AND PROCESS  
FOR PRODUCING SAME.**

Group Art  
Unit: 1762

Examiner: Not yet assigned

Docket No: 183-01

Certificate of Mailing

I hereby certify that this paper or  
fee and the papers indicated as  
being deposited with the United  
States Postal Service as first  
class mail postage prepaid in an  
envelope addressed to:

Mail Stop DD  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
on January 21, 2004.

Alex R. Sluzas, Reg. No. 28,669

---

Mail Stop DD  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT  
PURSUANT TO THE PROVISIONS OF 37 C.F.R. §§ 1.56, 1.97 AND 1.98**

Sir:

In accordance with applicants' duty of disclosure under 35 U.S.C. § 1.56(a) and pursuant to 37 C.F.R. §§ 1.97-1.98, applicants list herewith patents, publications, or other information of which they are aware and they believe may be material to the examination of this application in respect of which there may be a duty to disclose.

The filing of this Information Disclosure Statement shall not be construed to mean that a search has been made, an admission that the information cited is, or is considered to be, material to patentability, or that no other material information, as defined in 37 C.F.R. § 1.56(a), exists. Further, the filing of this Information Disclosure Statement shall not be construed as an admission against any interest in any manner.

U.S. Patents

U.S. Patent No. Re. 19,372 to Walton dated November 13, 1934.

U.S. Patent No. Re. 20,295 to Fisher dated March 16, 1937.

U.S. Patent No. 1,677,701 to Alton dated July 17, 1928.

U.S. Patent No. 2,001,448 to Beasley dated May 14, 1935.

U.S. Patent No. 2,142,540 to Veazey dated January 3, 1939.

U.S. Patent No. 2,379,358 to Jewett dated June 26, 1945.

U.S. Patent No. 2,695,851 to Lodge dated November 30, 1954.

U.S. Patent No. 2,898,232 to Miller, et al. dated August 4, 1959.

U.S. Patent No. 2,981,636 to Lodge, et al. dated April 25, 1961

U.S. Patent No. 2,986,476 to Larssen dated May 30, 1961.

U.S. Patent No. 3,397,073 to R. H. Fehner dated August 13, 1968.

U.S. Patent No. 3,479,201 to Sloan dated November 18, 1969.

U.S. Patent No. 3,507,676 to McMahon dated April 21, 1970.

U.S. Patent No. 3,752,696 to Beyard, et al. dated August 14, 1973.

U.S. Patent No. 3,932,143 to Marshall, et al. dated January 13, 1976.

U.S. Patent No. 3,945,945 to Kiovsky, et al, dated March 23, 1976.

U.S. Patent No. 3,985,540 to Fein, et al. dated October 12, 1976.

U.S. Patent No. 4,092,441 to Meyer, et al. dated May 30, 1978.

U.S. Patent No. 4,631,267 to Lachman, et al. dated December 23, 1986.

U.S. Patent No. 4,920,090 to Ritter, et al. dated April 24, 1990.

U.S. Patent No. 5,039,311 to Bloecher dated August 13, 1991.

U.S. Patent No. 5,052,162 to Bush, et al. dated October 1, 1991.

U.S. Patent No. 5,147,686 to Ichimura, et al. dated September 15, 1992.

U.S. Patent No. 5,356,664 to Narayan, et al. dated October 18, 1994.

U.S. Patent No. 5,362,566 to George, et al. dated November 8, 1994.

U.S. Patent No. 5,366,767 to Howard dated November 22, 1994.

U.S. Patent No. 5,411,803 to George, et al. dated May 2, 1995.

U.S. Patent No. 5,599,586 to Israel dated February 4, 1997.

U.S. Patent No. 5,733,842 to Gerdes, et al. dated March 31, 1998.

U.S. Patent No. 5,975,988 to Christianson dated November 2, 1999.

U.S. Patent No. 6,063,849 to Morris, et al. dated May 16, 2000.

U.S. Patent No. 6,120,913 to Kluttz, et al. dated September 19, 2000.

U.S. Patent No. 6,214,466 to Joedicke dated April 10, 2001.

U.S. Patent No. 6,235,372 to Joedicke dated May 22, 2001.

U.S. Patent No. 6,238,794 to Beesley, et al. dated May 29, 2001.

U.S. Patent No. 6,245,381 to Israel dated June 12, 2001.

U.S. Patent No. 6,495,074 to Carr dated December 17, 2002.

U.S. Patent No. 6,521,004 to Culler, et al. dated February 18, 2003.

U.S. Patent Application Publications

U.S. 2002/0095871 to McArdle, et al. Pub. Date: July 25, 2002.

U.S. 2002/0098110 to Graham, et al. Pub. Date: July 25, 2002.

U.S. 2002/0160151 to Pinault, et al. Pub. Date: October 31, 2002.

U.S. 2003/0037698 to Kiik, et al. Pub. Date: February 27, 2003.

U.S. 2003/0068469 to Aschenbeck, et al. Pub. Date: April 10, 2003.

U.S. 2003/0108668 to Joedicke, Pub. Date: June 12, 2003.

Foreign Patent Documents

International Patent Document WO 96/07538 dated, March 14, 1996;

Publications And Other Documents

"The Aging Process of Shingles" by Tyler Wierman, 4 pgs., date unknown,  
[http://www.ag.ohio-state.edu/~ati\\_cons/257/tyler/1.htm](http://www.ag.ohio-state.edu/~ati_cons/257/tyler/1.htm).

Technical Bulletin Asphalt Roofing Manufacturers Association "Algae Discoloration of Roofs", Catalogue No. 217-RR-89, 1 pg., (Calverton, MD), May 1997.

Copper Development Association Inc., "Copper Blocks Ugly Bugs", 2 pgs., Winter 1995.

Johns Manville Roofing Systems Group, "Roofing Granules" Sheet ID: 3004, 6 pgs., (Denver, CO) Issued January 11, 2001.

Minerals Research & Recovery, Inc., "Roofing Granules", 2 pgs., (Tucson, AZ), date unknown.



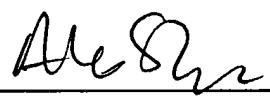
Serial No. 10/600,809  
Page 5

The individual making this statement is the attorney who signs below on the basis of information provided by the inventors, information in the attorney's file, and an individual associated with the filing and prosecution of this application.

No additional fee is believed to be required. In the event, the Commissioner is hereby authorized to charge any additional fees associated with this communication, or credit any overpayment, to Paul & Paul Deposit Account No. 16-0750, Order No. 2021.

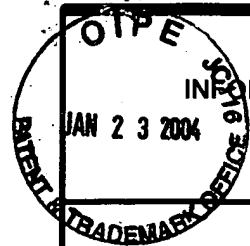
Respectfully submitted,

Date: January 21, 2004

  
\_\_\_\_\_  
Alex R. Sluzas  
Registration No. 28,669

Order No. 2021

Paul & Paul  
Two Thousand Market Street  
Suite 2900  
Philadelphia, PA 19103  
(215) 568-4900



## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY DOCKET NO.

183-01

SERIAL NO.

10/600,809

Keith C. Hong, et al.

FILING

June 20, 2003

GROUP

1762

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	RE 19,372	11/13/34	Walton			
	RE 20,295	03/16/37	Fisher			
	1,677,701	07/17/28	Alton			
	2,001,448	05/14/35	Beasley			
	2,142,540	01/03/39	Veazey			
	2,379,358	06/26/45	Jewett			
	2,695,851	11/30/54	Lodge			
	2,898,232	08/04/59	Miller, et al.			
	2,981,636	04/25/61	Lodge, et al.			
	2,986,476	05/30/61	Larssen			
	3,397,073	08/13/68	Fehner			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 96/07538	03/14/96	PCT				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

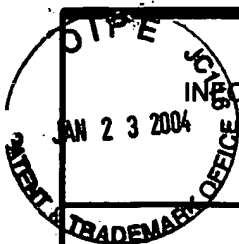
		"The Aging Process of Shingles" by Tyler Wierman, 4 pgs., date unknown, <a href="http://www.ag.ohio-state.edu/-ati_cons/257/tyler/1.htm">http://www.ag.ohio-state.edu/-ati_cons/257/tyler/1.htm</a> .
		Technical Bulletin Asphalt Roofing Manufacturers Association "Algae Discoloration of Roofs", Catalogue No. 217-RR-89, 1 pg., (Calverton, MD), May 1997.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.





## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY DOCKET NO.

183-01

SERIAL NO.

10/600,809

Keith C. Hong, et al.

FILING

June 20, 2003

GROUP

1762

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	3,479,201	11/18/69	Sloan			
	3,507,676	04/21/70	McMahon			
	3,752,696	08/14/73	Beyard, et al.			
	3,932,143	01/13/76	Marshall, et al.			
	3,945,945	03/23/76	Kiovsky, et al.			
	3,985,540	10/12/76	Fein, et al.			
	4,092,441	05/30/78	Meyer, et al.			
	4,631,267	12/23/86	Lachman, et al.			
	4,920,090	04/24/90	Ritter, et al.			
	5,039,311	08/13/91	Bloecher			
	5,052,162	10/01/91	Bush, et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Copper Development Association Inc., "Copper Blocks Ugly Bugs", 2 pgs., Winter 1995.
		Johns Manville Roofing Systems Group, "Roofing Granules" Sheet ID: 3004, 6 pgs., (Denver, CO), Issued January 11, 2001.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY DOCKET NO.

183-01

SERIAL NO.

10/600,809

Keith C. Hong, et al.

FILING

June 20, 2003

GROUP

1762

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,147,686	09/15/92	Ichimura, et al.			
	5,356,664	10/18/94	Narayan, et al.			
	5,362,566	11/08/94	George, et al.			
	5,366,767	11/22/94	Howard			
	5,411,803	05/02/95	George, et al.			
	5,599,586	02/04/97	Israel			
	5,733,842	03/31/98	Gerdas, et al.			
	5,975,988	11/02/99	Christianson			
	6,063,849	05/16/00	Morris, et al.			
	6,120,913	09/19/00	Kluttz, et al.			
	6,214,466	04/10/01	Joedicke			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

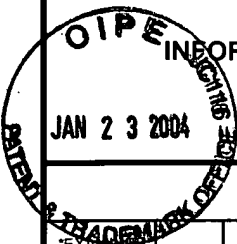
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Minerals Research & Recovery, Inc., "Roofing Granules", 2 pgs., (Tucson, AZ), date unknown.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY DOCKET NO.

183-01

SERIAL NO.

10/600,809

Keith C. Hong, et al.

FILING

June 20, 2003

GROUP

1762

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,235,372	05/22/01	Joedicke			
	6,238,794	05/29/01	Beesley, et al.			
	6,245,381	06/12/01	Israel			
	6,495,074	12/17/02	Carr			
	6,521,004	02/18/03	Culler, et al.			
	U.S. 2002/0095871	07/25/02	McArdle, et al.			
	U.S. 2002/0098110	07/25/02	Graham, et al.			
	U.S. 2002/0160151	10/31/02	Pinault, et al.			
	U.S. 2003/0037698	02/27/03	Kiik, et al.			
	U.S. 2003/0068469	04/10/03	Aschenbeck, et al.			
	U.S. 2003/0108668	06/12/03	Joekicke			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.